Science & Technology Program R&D³ Proposal and Performance Contract (S&T PropC) System

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Proposal ID: 746

I. General Information

A. Title (one sentence, up to 250 characters)
For help click here. To update the title, click in the box below, then click [Update Title]

A title has not been entered yet

B. What Is the Primary Research Question You Are Proposing with this Proposal?
(1 to 4 sentences, up to 1000 characters)
For help click here

Add or Edit Text

C. R&D Output Areas (select only one)
For help click here. Back to top click here.
To update the output area, make a choice below, then click [Update Output Area]

S&T Program Focus Area:
○ (WD) **Water Delivery -- Improving Water Delivery Reliability with Innovative Solutions and Practices.**

   R&D³ Output Areas Nested Under the WD Focus Area:
   ○ (WD-1) **Fish Passage and Entrainment --** Improve passage and reduce

entrainment of aquatic and other species that could impact water storage and diversion operations

○ (WD-2) **Ecosystem Needs --** Find innovative means to address ecosystem needs without impacting water deliveries

○ (WD-3) **Invasive Species --** Develop and improve techniques for managing aquatic and riparian invasive species that consume water or clog deliveries

○ (WD-4) **Water Quality --** Develop and improve tools, models, and methods for managing water quality issues that impact operations and deliveries

○ (WD-5) **Sediment Management and Restoration --** Develop and improve sediment management and restoration practics to sustain the vitality of reservoirs and associated watershed and river systems

S&T Program Focus Area:
○ (IR) **Infrastructure Reliability -- Improving Water and Power Infrastructure Reliability and Safety with New Tools, Methods, and Materials.**

R&D³ Output Areas Nested Under the IR Focus Area:
○ (IR-1) **Condition Assessment --** Develop and improve methods to assess the condition of our structures and facilities.

○ (IR-2)**Repair and Maintenance --** Develop and improve methods and materials to reduce deterioration and to improve facility repair and maintenance capability.

○ (IR-3) **Improving Geotechnical Infrastructure Reliability --** Geology and Geotechnical Investigation, Design, and Construction (needs and goals under development)

○ (IR-4) **Public and Employee Safety --** Reduce public and employee safety risks due to the operations of our facilities

○ (IR-5) **Improved Power Generation --** Reduce power losses, increase power generation efficiencies, and improve powerplant operations

S&T Program Focus Area:
○ (WS) **Water Supply -- Enhancing Water Supplies with New Technologies and Practices.**

R&D³ Output Areas Nested Under the WS Focus Area:
○ (WS-1) **Groundwater Storage --** Develop and improve models and methods to optimize groundwater storage and use

○ (WS-2)**Desalination and Water Treatment --** Develop and improve cost effective desalination and other water purification technologies to expand water supplies

○ (WS-3) **Agriculture Water Supplies --** Develop and improve cost efficient, reliable methods to automate, measure, and deliver agricultural water

○ (WS-4) **Water Marketing --** Develop and improve Reclamation's ability to facilitate water marketing and other institutional mechanisms to expand and manage water supplies

○ (WS-5) **Supporting Irrigation Districts --** Find ways to help irrigation districts identify and cope with change such as urbanization, competition for water rights, and recreational use of facilities

○ (WS-6) **System water losses --** Develop cost effective materials and methods to decrease system water losses and associated groundwater quality and quantity impacts

S&T Program Focus Area:
○ (DS) **Decision Support -- Improving Reservoir and River Operations through Enhanced Decision Modeling and Data Support.**

R&D^3 Output Areas Nested Under the DS Focus Area:
○ (DS-1) **Extreme Hydrologic Events --** Develop and improve methods to predict, model, and manage extreme & operational hydrologic events

○ (DS-2)**Water Supply Forecasting --** Develop and improve methods to forecast and monitor water supplies and water demands

○ (DS-3) **Models and Decision Support Systems --** Develop and improve models & decision support systems to evaluate trade-offs between water demands, water losses, water quality, & institutional needs to optimally manage water deliveries & use

○ (DS-4) **Water Resource Data Analysis --** Improve the analysis and useability of critical water resources management data and information to facilitate effective, comprehensive planning and decision making

D. Proposed Start and Completion Years
For help click here. Back to top click here.
To update the years, make a choice below, then click [Update Years]

Proposed Start Year FY: [▼]

Proposed Completion FY: [▼]

E. Purpose of Proposal (check one)

For help click here. Back to top click here.
To update the purpose, make a choice below, then click [Update Purpose]

○ Conducting research, development, demonstration, and/or deployment.

○ Scoping or Formulation (Should not exceed $10,000 to $15,000)

F. State the Problem. How Do Your Research Outputs Contribute to Achieving Reclamation's Mission, and The S&T Program Mission and Performance Measures?
(one page, up to 4000 characters)
For help click here Back to top click here

Add or Edit Text

Security and Intellectual Property Alert: Does your statement of the problem and any potential solutions of the problem (above) contain information that could be considered proprietary or potentially patentable?
Check one: For help click here. Back to top click here.
To update the alert, make a choice below, then click [Update Alert]

○ Yes

○ No

If you answered Yes, Reclamation reviewers of your proposal will be briefed on confidentiality requirements and outside reviewers, if used, will be asked to sign a non-disclosure agreement.

G. Demonstrate how Reclamation is Best Positioned to Both Conduct the Research and Implement the Results. (one page, up to 3000 chacters)
For help click here Back to top click here

Add or Edit Text

H. Technology and Knowledge Transfer Plan : How will you share project results?
(one page, up to 3000 characters)
For help click here Back to top click here

Add or Edit Text

II. PROPOSED DEPLOYABLE PROJECT OUTPUTS AND SCHEDULE

For help click here Back to top click here
To start building a table that lists your proposed outputs, click Add. For each additional output, click Add again. Adding outputs automatically updates this table.

No.	Deployable Output Description	Scheduled Completion Date	Add

III. PROPOSED TASKS TO PRODUCE THE DEPLOYABLE PROJECT OUTPUTS

This information establishes your work plan and will be used to track progress of funded projects. List discrete measurable tasks.

For help click here Back to top click here
To start building a table that lists the tasks you need to do to produce the outputs listed in Section II, click Add. For each additional task, click Add again. Adding tasks will automatically update this table.

No.	Tasks To Produce the Deployable Outputs listed in Section II	Task-based Funding Request	Scheduled Completion Date	P/R/T	Add
Total Funding		$0			

IV. FISCAL YEAR FUNDING REQUEST - SUMMARIZED BY FISCAL YEAR AND BY S&T PROGRAM FUNDING SOURCE

For help click here Back to top click here
To start building a table that lists the funding, click Add. For each additional year, click Add again. Adding funding will automatically update this table.

Fiscal Year	BOR-Wide S&T	PN Region S&T	LC Region S&T	MP Region S&T	UC Region S&T	GP Region S&T	Total	Add
Totals	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$0	

Note: Once a multiyear proposal is funded, it will be evaluated each year for the merit of continuation of funding. Accomplishing prior year tasks will be a key consideration. Commitment of funding other than current year is subject to appropriations.

V. PARTNERS - LEVERAGING RESOURCES WITH OTHERS WHO HAVE A STAKE IN THIS EFFORT

For help click here Back to top click here
To start building a table that lists the partners, click Add. For each additional partner, click Add again. Adding partners will automatically update this table.

No.	Partner First Name	Partner Last Name	Organization	Phone	E-mail	Firm or Potential	Inside or Outside	Add

No.	Partner Last Name	IKS	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	Total	
Totals			$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$0	

VI. Advocates - List Reclamation Managers, Other Stakeholders, and Project Output Beneficiaries That Advocate this Proposed Effort

For help click here Back to top click here
To start building a table that lists the advocates, click Add. For each additional advocate, click Add again. Adding advocates will automatically update this table.

First Name	Last Name	Title	Organization	Phone	Email	Been briefed?	Add

VII. Location of Field Work and/or Research Beneficiaries

For help click here Back to top click here

Region	Water or Irrigation District	Area Office	BOR Project	Longitude	Latitude	Primary Field Contact	NEPA compliance	NEPA activity	Add

VIII. PROJECT TEAM

Who will participate in this effort?

For help click here Back to top click here

First Name	Last Name	Discipline/Speciality	Organization	Phone	E-mail	PI	Add

IX Comments

(one page, 4000 characters)
For help [click here](#)

Add or Edit Text

Team Qualifications
(one page, 4000 characters)
For help [click here](#)

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SECTION X. Annual Progress Report for FY2003

Project Status

To update the Project Status, make a choice below, then click [**Update Project Status**]

Project Status: [▼]

Ongoing - Consider this project for continued funding for the upcoming fiscal year.

Completed - This project is completed. This is the final progress report.

Discontinue - This project will not be completed as proposed. This is the final progress report.

C. PROGRESS REPORT ON PROPOSAL SECTION II - Deployable Project Outputs and Schedule

Entry Date	Deployable Output Description	Scheduled Completion Date	Percent Complete	Comments	
Add Outputs that Have Evolved Through the Research Process					Add

D. Contact Information For Users of Deployed Project Outputs

This section is created when clicking "Deploy" in Section C.

No.	Entry Date	Deployed Output	Output User Name	Organization	Phone	E-Mail	Comments	

E. PROGRESS REPORT ON PROPOSAL SECTION III - Tasks and Funding

No.	Entry Date	Task Description	Task-based Funding Request	Scheduled Completion Date	Percent Complete	P/R/T	Comments
	Total Funding		$0				

Add Task that Have Evolved Through the Research Process	Add

F. PROGRESS REPORT ON PROPOSAL SECTION IV - Revised FY S&T Funding Request and Expenditures Report

Funding Requested

You may revise funding request for FY2004 and beyond if applicable.

Fiscal Year	BOR-Wide S&T (Hennig)	PN Region S&T (Personious)	LC Region S&T (Weisenborn)	MP Region S&T (Matanga)	UC Region S&T (Lawler)	GP Region S&T (Rossow)	

Fiscal Year	Comments	

Expenditures

Estimate Expenditures to fund to end of current FY

Fiscal Year	Amount	Comments	

G. PROGRESS REPORT - Stakeholders Briefed During Last 12 Months

Stakeholders are considered to be Reclamation managers and end-users, and the external water managers and water users served by Reclamation project waters

Entry Date	List stakeholders or stakeholder groups that you briefed about your S&T Program research outputs (planned or past outputs), or briefed about technology and capability developed by others that could be	Number of Stakeholders	Comments	

	beneficial to the stakeholders.				
Add Stakeholders Briefed					Add

H. PROGRESS REPORT: S&T Program Bulletins Associated With ThisResearch Project (Under Construction)

I. PROGRESS REPORT: PARTNERS - Actual Fiscal Year Resource Leveraging Received for Current Year

(Contributions Toward S&T Program Mission Goal)

Entry Date	Partner	Organization	Phone/ Email	Firm-Potential- Actual/ In-Out	Actual Dollar Contrib.	
Add Partner that Have Evolved Through the Research Process						Add